

05/06/14    Agenda:

- Review Homework
  - Worksheet 8 - Spheres
- Turn in any late work!**
- Review - Sections 12.1 - 12.6
- Homework
  - Review Packet
    - We will review it on tomorrow (Thursday)
    - It will be collected before the test Friday

# SURFACE AREA AND VOLUME FORMULAS

Name: Answer Key

## KEY:

L.A. = Lateral Area

S.A. = Surface Area

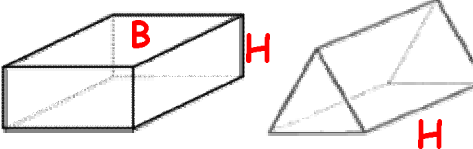
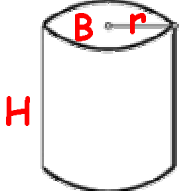
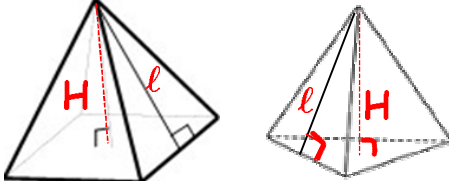
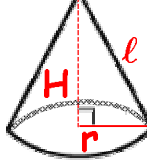
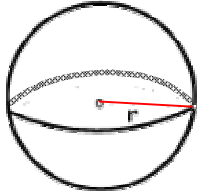
V = Volume

P = perimeter of base

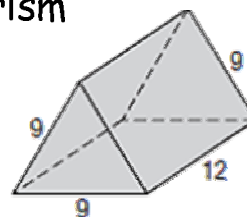
B = area of base

H = height of figure

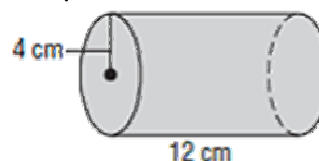
$\ell$  = slant height of figure

<p><b>Straight-Sided Figures (Repeating Base) 2 Bases</b></p> <p>L.A. = <u><math>P \cdot H</math></u></p> <p>S.A. = <u><math>L.A. + 2 \cdot B</math></u></p> <p>V = <u><math>B \cdot H</math></u></p>	<p><b>PRISMS</b></p> 	<p><b>CYLINDERS</b></p>  <p>P = <u><math>C = 2\pi r</math></u></p> <p>B = <u><math>\pi r^2</math></u></p>
<p><b>Pointed Figures (Shrinking Base) 1 Base</b></p> <p>L.A. = <u><math>\frac{P \cdot \ell}{2}</math></u></p> <p>S.A. = <u><math>L.A. + B</math></u></p> <p>V = <u><math>\frac{B \cdot H}{3}</math></u></p>	<p><b>PYRAMIDS</b></p> 	<p><b>CONES</b></p>  <p>P = <u><math>C = 2\pi r</math></u></p> <p>B = <u><math>\pi r^2</math></u></p>
<p><b>Spheres No Bases</b></p> <p>S.A. = <u><math>4\pi r^2</math></u></p> <p>V = <u><math>\frac{4\pi r^3}{3}</math></u></p>	<p><b>SPHERES</b></p> 	

**Target 12A** - Surface Area and Volume of a Prism



**Target 12B** - Surface Area and Volume of a Cylinder



**Target 12C** - Surface Area and Volume of a Pyramid



**Target 12D** - Surface Area and Volume of a Cone



**Target 12E** - Surface Area and Volume of a Sphere

